48

ISSUANCE NUMBER:

MPD 8080.4

DATE:

November 28, 1967

MATERIAL TRANSMITTED

1. This is a new Saturn V Program Directive.

ISSUANCE TRANSMITTAL SHEET

2.	The	purpose	of this	Dire	ctive	is	to	esta	blis	sh c	onti	rols	to	preclude
	use	of test	hardwar	e as	flight	ha	ardv	vare	on f	flig	ht s	stage	s.	Procraac

FILING INSTRUCTIONS

All MSFC Issuances will be filed in a standard 3-ring binder in numeric sequence without regard to the alphabetic prefix which identifies the type of issuance.



MPD 8080.4

EFFECTIVE DATE:

November 28, 1967

PROGRAM DIRECTIVE

SUBJECT: PRECLUDE USE OF TEST HARDWARE AS FLIGHT HARDWARE ON FLIGHT STAGES

SATURN V PROGRAM DIRECTIVE NUMBER: 48 REVISION NUMBER: REVISION DATE:

PREPARED BY: SATURN V TEST MANAGEMENT OFFICE (I-V-T)

PHONE: 876-1574/ROBINSON

1. PURPOSE

This Program Directive establishes controls to:

PRECLUDE USE OF TEST HARDWARE AS FLIGHT HARDWARE ON FLIGHT STAGES

2. DEFINITION

Test hardware, as referred to herein, is hardware that has been:

- a. Subjected to development tests, qualification tests, reliability demonstration tests or any other tests except acceptance tests.
- b. Delivered to a test organization for any tests except acceptance tests.

3. SCOPE

This Program Directive is applicable to all MSFC elements responsible for Saturn V stage design, fabrication, assembly, test, manufacturing checkout, acceptance, shipment, prelaunch checkout, and launch operations.

4. REFERENCES

- a. Apollo Test Requirements NHB 8080.1, dated March 1967.
- b. Saturn V Program Directive Nr. 38, dated November 25, 1966, subject: Control of Non-Flight Hardware Installed on Saturn V Flight Stages.

5. POLICY

No test hardware shall be used as flight hardware on flight stages. (See para. 4.3.3.2, Apollo Test Requirements NHB 8080.1, dated Ref. a March 1967).

6. RESPONSIBILITIES

Each Saturn V Stage Manager shall:

- a. Ensure that the stage contractor establishes and implements procedures which:
 - (1) Preclude the use of test hardware as flight hardware on flight stages.
 - (2) Account for test hardware from test to final disposition.
- b. Monitor Material Review Board actions to insure compliance with this directive.
- Control disposition of test hardware by contractual requirements when applicable.
- d. Require the prime contractor to certify to the stage manager the following for all stages built prior to implementation of the procedures established in 6a., above:
 - (1) No test hardware has been installed as flight hardware on flight stages.
 - (2) All test hardware has been controlled and accounted for.
 - (3) No test hardware has been provided for spares delivered to KSC.
- e. Assure compliance with reference 4b., for cases in which test hardware is installed on flight stages temporarily (e.g. perform a fitting check, conduct a test, etc.).

Ref. b

7. IMPLEMENTATION

This program directive shall be implemented immediately.

Arthur Rudolph

Manager, Saturn V Program

November 28, 1967

Distribution for Action:

MSFC:

I-V-SIC, Mr. Urlaub (3) I-V-SII, Mr. Godfrey (3) I-V-SIVB, Mr. McCulloch (3) I-V-IU, Mr. Duerr (3)

Distribution for Information:

MSFC:

DIR, Dr. von Braun DEP-T, Dr. Rees I-DIR, Gen. O'Connor I-DIR, Mr. Hueter I-DIR, Dr. Mrazek I-V-MGR, Dr. Rudolph I-V-MGR-O, Mr. Bramlet I-V-MGR-M, Mr. Murphy I-V-G, Mr. Smith I-V-T, Mr. Burns I-V-T, Mr. Frye I-V-T, Mr. Hyfield I-V-P, Mr. Sneed I-V-F, Mr. Rowan I-V-Q, Mr. Moody I-V-E, Mr. Bell I-MO-MGR, Dr. Speer I-MT-MGR, Mr. Balch I-E-MGR, Mr. Brown I-E-T, Mr. Mitchell I-MICH-MGR, Dr. Constan I-I/IB-T, Mr. Fikes I-V-SII, Mr. Gengelbach I-V-SIVB, Mr. Young I-V-SIVB, Mr. Hall I-V-IU, Mr. Powell I-V-M, Mrs. Hartlein I-K, Col. Montgomery I-K-V, Lt. Col. Murphy R-DIR, Mr. Weidner R-DIR, Mr. Cook R-TO-DIR, Mr. Richard R-OM-DIR, Col. Fellows R-ASP, Mr. Dannenberg R-AERO-DIR, Dr. Geissler R-P&VE-DIR, Dr. Lucas R-TEST-DIR, Mr. Heimburg R-ME-DIR, Mr. Kuers R-ASTR-DIR, Dr. Haeussermann R-QUAL-DIR, Mr. Grau

Distribution for Information: (Continued)

KSC:

AP, Adm. Middleton AP-SAT, Mr. Mathews GE-ASD, Mr. Lambert LO, Mr. Petrone LV, Dr. Gruene

MSC:

PA, Mr. Low PR, Mr. Bland

MSF:

MA, Gen. Phillips MAT, Mr. Day